

CLAIMS

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Theorem 6. Let $\{X_n\}_{n \geq 0}$ be a sequence of independent random variables such that

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memory; and

an EFI driver stored in the nonvolatile random access memory that interfaces with the Extensible Firmware Interface, and operates to configure available flash read-only-memory space normally reserved for the BIOS as a diagnostic disk drive, load one or more diagnostic programs into the diagnostic disk drive, selectively boot the computer system to the EFI command shell in the event of a problem with the hard disk drive, run the one or more diagnostic programs to correct the problem with the hard disk drive, and reboot the computer system using the operating system on the hard disk drive.

10. The computer apparatus recited in Claim 9 which further comprises an event viewer for displaying the diagnostic programs.

12. The computer apparatus 1 recited in Claim 9 wherein the EFI driver includes encryption routines for security purposes.

13. The computer apparatus recited in Claim 9 wherein the diagnostic disk drive space stores power on self test (POST) error logs in files that may be read and displayed.

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will be the same as the one obtained by the method of the previous section. The only difference is that the function f is now defined by the equation